

Notice of Allowability

Application No.

10/078,021

Applicant(s)

TSAI ET AL.

Examiner

Art Unit

Myriam Pierre

2654

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 05/03/2005.
2. ☒ The allowed claim(s) is/are 1-16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☒ Certified copies of the priority documents have been received in Application No. 901-32735.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

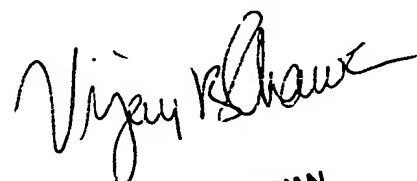
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.



VIJAY CHAWAN
PRIMARY EXAMINER

DETAILED ACTION

Response to Amendment

1. Applicant's amendments filed 05/03/2005 regarding Office Action of 02/11/2005.

Applicant amends claims 1-2, 4, and 9; 112 2nd Rejection of claims 1, 3 and 9 is removed.

Response to Arguments

2. Applicant's arguments, see pages 8-18, filed 05/03/2005, with respect to Office Action of 02/11/2005 have been fully considered and are persuasive. The rejection of claims 1-16 has been withdrawn.

Allowable Subject Matter

3. Claims 1-16 are allowed with an Examiner's Amendment over the prior art of record. The following is an examiner's statement of reasons for allowance:

As to claims 1 and 8, Tsai et al. ("Implementing Strategy of MPEG-2 Audio Decoder and Efficient Multi-channel Architecture") teach MPEG Layer3 signal decoding, Tsai does not teach "register stack for storing the result produced by IMDCT and a buffer memory for storing DWIMDCT, in which one multiplier-add is implemented in MP3 decoding".

Sakamoto et al. ("A fast MPEG Audio layer III algorithm for a 32-bit MCU") teach multiply-adds for MPEG layer-3 operation.

However, Sakamoto et al. does not teach "register stack for storing the result produced by IMDCT and a buffer memory for storing DWIMDCT, in which one multiplier-add is implemented in MP3 decoding"

Neither Tsai nor Sakamoto et al. singularly or in combination teach nor fairly suggest, as

discussed by applicant's response, pages 11-12 "register stack for storing the result produced by IMDCT and a buffer memory for storing DWIMDCT, in which one multiplier-add is implemented in MP3 decoding", examiner agrees. While MPEG decoding is taught by Sakamoto et al., implementing a "register stack for storing the result produced by IMDCT and a buffer memory for storing DWIMDCT, in which one multiplier-add is implemented in MP3 decoding" is not taught nor is it obvious over the prior art.

The dependent claims 2-7 and 9-16 are allowed because they further limit the independent claims or their parent claims.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

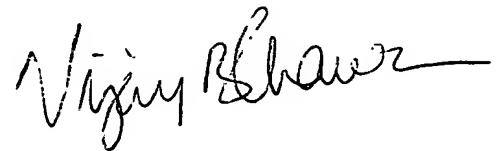
5. The following art made of record and not relied upon is considered pertinent to applicant's disclosure, see attached PTO-892.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Myriam Pierre whose telephone number is 703-605-1196. The examiner can normally be reached on Monday – Friday from 5:30 a.m. - 2:00p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Talivaldis Smits can be reached on 703-306-3011. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

11/21/05

A handwritten signature in black ink, appearing to read "Vijay Chawan", with a long horizontal stroke extending to the right.

**VIJAY CHAWAN
PRIMARY EXAMINER**